

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claims * and ADD new claims * in accordance with the following:

1. (ORIGINAL) A plasma display device comprising:
a power module which has a plurality of power devices; and
temperature detecting unit installed in said power module,
wherein the temperature of said power module is controlled by feeding temperature information detected by said temperature detecting unit back to input signal control unit.
2. (ORIGINAL) The plasma display device according to claim 1, wherein when the temperature of said power module reaches or exceeds a predetermined value, the output of said power module is blocked.
3. (ORIGINAL) The plasma display device according to claim 1, wherein when the temperature of said power module rises above a predetermined value, control is performed to hold the temperature of said power module at a fixed value, and when this condition remains unchanged for a predetermined time period, the output of said power module is blocked, thereby entering a low power consumption mode.
4. (ORIGINAL) The plasma display device according to claim 1, wherein said power module is used to perform a sustain discharge on a plasma display panel.
5. (ORIGINAL) The plasma display device according to claim 1, wherein when said power module is used to display an image, said temperature information is converted into a temperature increase saturation temperature of said power module using a conversion table stored in advance in a storage device, and said converted temperature increase saturation temperature of said power module is compared with a predetermined temperature,
whereby, when said temperature increase saturation temperature of said power module is lower than said predetermined temperature, the temperature of said power module is detected by said temperature detecting unit, and

when said temperature increase saturation temperature of said power module is equal to or greater than said predetermined temperature, image quality adjustment is performed by reducing a number of sustain pulses in said sustain discharge of said plasma display panel.

6. (ORIGINAL) The plasma display device according to claim 1, wherein when said power module is used to display an image, a temperature increase saturation temperature of said power module is calculated using a coefficient stored in advance in a storage device from said temperature information, and said calculated temperature increase saturation temperature of said power module is compared with a predetermined temperature,

whereby, when said temperature increase saturation temperature of said power module is lower than said predetermined temperature, the temperature of said power module is detected by said temperature detecting unit, and

when said temperature increase saturation temperature of said power module is equal to or greater than said predetermined temperature, image quality adjustment is performed by reducing a number of sustain pulses in said sustain discharge of said plasma display panel.

7. (ORIGINAL) The plasma display device according to claim 1, wherein said temperature information detected by said temperature detecting unit is a voltage.

8. (CURRENTLY AMENDED) The plasma display device according to claim 5 or claim 6, wherein said predetermined temperature is a solder surface prescribed temperature value.

9. (ORIGINAL) The plasma display device according to claim 1, wherein said input signal control unit control a number of pulses in said sustain discharge of said plasma display panel in accordance with said temperature information.

10. (ORIGINAL) The plasma display device according to claim 1, wherein said input signal control unit control a voltage level of said sustain discharge of said plasma display panel in accordance with said temperature information.

11. (ORIGINAL) The plasma display device according to claim 1, wherein said input signal control unit control a magnitude of a power source current used in said sustain discharge of said plasma display panel in accordance with said temperature information.

12. (ORIGINAL) The plasma display device according to claim 1, wherein said power module is disposed in a perpendicular direction to the ground, and said temperature detecting unit are disposed in an upper portion of said power module.

13. (ORIGINAL) The plasma display device according to claim 12, wherein said power module is provided in a plurality, and said temperature detecting unit are disposed in the respective upper portions of said power modules.

14. (ORIGINAL) The plasma display device according to claim 12, wherein said power module is provided in a plurality, and said temperature detecting unit is disposed in the upper portion of said power module disposed in the uppermost position.

15. (ORIGINAL) A power module which drives a plasma display panel in accordance with a signal from input signal control unit, comprising:
a plurality of power devices for generating a drive signal for said plasma display panel;
and
temperature detecting unit which detects the temperature of said power module,
wherein the temperature of said power module is controlled by feeding temperature information detected by said temperature detecting unit back to said input signal control unit.

16. (ORIGINAL) The power module according to claim 15, wherein when said power module temperature reaches or exceeds a predetermined value following feedback of said temperature information detected by said temperature detecting unit to said input signal control unit, the output of said power module is blocked.

17. (ORIGINAL) The power module according to claim 15, wherein said temperature information detected by said temperature detecting unit is fed back to said input signal control unit, when said power module temperature exceeds a predetermined value, control is performed to hold said power module temperature at a fixed value, and when this condition remains unchanged for a predetermined time period, the output of said power module is blocked, thereby entering a low power consumption mode.

18. (ORIGINAL) The power module according to claim 15, wherein said power module is used to perform a sustain discharge on said plasma display panel.

19. (ORIGINAL) The power module according to claim 15, wherein said temperature detecting unit comprise a temperature detection element provided in the vicinity of said power devices, and a temperature detection circuit, connected to said temperature detection element, for outputting the temperature information that corresponds to the output of said temperature detection element.

20. (ORIGINAL) The power module according to claim 15, wherein said temperature detecting unit comprise a temperature detection element provided in the vicinity of said power devices,

said temperature detection element is connected to a temperature detection circuit provided on the exterior of said power module, and

said temperature detection circuit outputs the temperature information that corresponds to the output of said temperature detection element.

21. (ORIGINAL) The power module according to claim 20, wherein said temperature detection element is a thermistor, and said temperature detection circuit outputs said temperature information on the basis of a resistance characteristic of said thermistor.

22. (ORIGINAL) The power module according to claim 20, wherein said temperature detection element is a diode, and said temperature detection circuit outputs said temperature information on the basis of a forward direction voltage characteristic of said diode.

23. (ORIGINAL) The power module according to claim 20, wherein said temperature detection element is a thermo-electric couple, and said temperature detection circuit outputs said temperature information on the basis of a voltage characteristic of said thermocouple.